LEAD MODEL DEVELOPMENT: PROBABILISTIC RISK ASSESSMENT AND BIOKINETIC MODELING June 14-17, 1999

June 14-17, 1999			
MONDAY, JUNE 14, 1999			
8:00-9:00	REGISTRATION		
9:00-9:15	WELCOME AND INTRODUCTIONS: Les Grant		
9:15-9:45	KEYNOTE ADDRESS: Les Grant		
SESSION 1: GENERAL ASPECTS OF LEAD MODEL DESIGN: Les Grant, Chair			
TIME	SPEAKER	TOPIC	
9:45-10:15	Mark Maddaloni, EPA Region 2	Description of EPA's Adult Pb Model and comparison with other biokinetic Pb models	
10:15-10:30	BREAK		
10:30-11:15	Ellen O'Flaherty, University of Cincinnati: Retired	Description of the structure of the O'Flaherty model	
11:15-11:50	Joel Pounds, Wayne State University	Structure and Application of the Leggett Model to Contemporary Issues of Lead Toxicity in Adults	
11:50-12:30	Rob Elias, EPA/ORD/NCEA/RTP	Description of the biokinetic structure of the IEUBK model	
12:30-1:30	LUNCH		
SESSION 2: KEY PHYSIOLOGICAL PROCESSES: Les Grant, Chair			
1:30-2:15	Paul Mushak, PB Associates	Physiological processes underlying blood lead biokinetics	
2:15-2:45	Howard Hu, Harvard University	The influence of bone lead and erythrocyte lead on plasma lead	
2:45-3:00	BREAK		

TIME	SPEAKER	TOPIC
3:00-3:45	William Manton, U Texas, Dallas	A critical review of the measurement of lead in plasma
3:45-4:15	Gerry Henningsen, EPA Region 8	Lead saturation: GI tract absorption or circulatory system?
4:15-5:00	Panel Discussion	Panelists: Session I and II speakers

TUESDAY JUNE	15, 1999		
SESSION 3: RECENT ADVANCES IN PHARMACOKINETIC AND OTHER PHYSIOLOGICAL STUDIES: Mark Johnson, Chair			
TIME	SPEAKER	TOPIC	
8:30-9:00	Kate Mahaffey, EPA NCEA/WASH	Mobilization of lead from bone stores	
9:00-9:30	Anne Steenhout, Free University of Brussels	Calcium interactions in the tooth lead model	
9:30-10:00	Mary Ballew, EPA Region 1	Modeling growth and development	
10:00-10:15	BREAK		
10:15-10:45	Stan Casteel Veterinary Medical Diagnostic Lab, U Missouri, Columbia, and Gerry Henningsen EPA Region 8	Maternal to fetal transfer in young swine	
10:45-11:15	Don Smith, University of California		
11:15-11:45	Panel Discussion	Panelists: Session III speakers plus Paul Mushak, Ellen O'Flaherty	
11:45-1:00	LUNCH		
SESSION 4: MAT	SESSION 4: MATHEMATICAL CONCEPTS OF BIOKINETIC MODELING: Gary Diamond, Chair		
TIME	SPEAKER	TOPIC	
1:00-1:30	Marlin Mickle, University of Pittsburgh	An all ages dynamic and stochastic lead model	
1:30-2:00	Edmond Crouch, Cambridge Environmental	Mathematics of biokinetic modeling	
2:00-2:30	Steve Rust, Battelle/Columbus	Mathematics of the IEUBK Model	

TIME	SPEAKER	TOPIC	
2:30-3:00	Allan Marcus and Rob Elias, EPA/ORD/NCEA/RTP	Elements of model confidence	
3:00-3:15	BREAK	BREAK	
3:15-3:45	Larry Zaragoza, EPA/OERR	Model development design and process	
3:45-4:30	Panel Discussion	Panelists: Session 4 Speakers and Harlal Choudhury	

WEDNESDAY.	JUNE 16, 1999		
SESSION 5: RECENT ADVANCES IN DEVELOPMENT AND APPLICATION OF LEAD MODELS: Marc Stifelman, Chair			
TIME	SPEAKER	TOPIC	
8:30-9:00	Barbara Beck, Gradient	Recent developments in a stochastic physiologically based pharmocokinetic model for lead model	
9:00-9:30	Ed Stanek, U Mass/Amherst	Soil Ingestion	
9:30-10:00	Scott Bartell, University of Washington	Modeling soil ingestion rates	
10:00-10:15	BREAK		
10:15-10:45	Jaana Sorvari, EPPD, Helsinki, Finland	Modeling requirements for risk assessment in Finland	
10:45-11:15	Kiran Srinivasan, URS Greiner - Woodward Clyde, and Dana Shepherd, CK Associates	Case study on the application of the Adult Lead Model	
11:15-11:45	Emelia Niciu, Institute of Public Health Bucharest, Romania	Reducing blood lead in 1-6 year old children living in the Zlatna Area, Romania	
11:45-1:00	LUNCH		
1:00-1:30	Scott Everett, Utah DEQ	Sampling issues of lead modeling	
1:30-2:30	Panel Discussion	Panelists: Session 5 Speakers plus Gerry Henningsen, Mark Maddaloni, and Pat Van Leeuwen	
2:30-3:00	Rob Elias, Moderator	Future directions/research needs discussion	

THURSDAY JUNE 17, 1999			
SESSION 6: APPROACHES TO PROBABILISTIC RISK ASSESSMENT REVIEW: Larry Zaragoza, Chair			
TIME	SPEAKER	TOPIC	
8:30-9:00	Karen Hogan, EPA/ORD/NCEA/WASH	Analyzing uncertainty	
9:00-9:30	Stephanie Simstad, Ohio EPA	Making the transition from deterministic to probabilistic lead models: a re-evaluation of model parameters	
9:30-10:00	Susan Griffin, EPA Reg 8	Development of Risk Assessment Guidance for Superfund (RAGS) Volume 3	
10:00-10:30	John Kissel, U Wash	PRA for soil ingestion rates	
10:30-10:45	BREAK		
10:45-11:15	Phil Goodrum, SRC	ISE Model: Development and application issues	
11:15-11:45	Terri Bowers, Gradient	Comparison of various models for calculation of permissable exposure levels for protection of children: implications of differences in pharmacokinetic modules and use of derterministic vs probabilistic models	
11:45-12:45	LUNCH		
12:45-1:15	Gary Diamond, SRC	Use of spatially-weighted distributions to represent uncertainty in mean soil lead concentrations	
1:15-1:45	Ron Whitfield, Argonne National Lab	Using expert judgements to estimate health risks of lead exposure	
1:45-2:45	Panel Discussion: Les Grant, Moderator	Panelists: Session 6 Speakers plus Larry Zaragoza	
2:45-3:15	Closing Remarks: Les Grant		